Name: HW51\_TriangleMissingAngles

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Geometry, Period

Due Date: Thur, Nov 6, 2014

**Geometry**

**Homework**



**Failure to show work on all problems or use complete sentences will result in a LaSalle. *Round to hundredths!***

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| 1) What is the value of z in the picture below? | 2) Solve for x: |
| 3) Find the angle measure A: | 4) Solve for x: |
| 5) Solve for x: | 6) The area of a triangle is 120 ft.2. The base of the triangle is 10 ft. long. What is the height of the triangle? |
| 7) Find the measure of the indicated angle. | 8) Find the area of the figure below |
| 9) Find the measure of the indicated angle. | 10) The area of a triangle is 578 cm2. Its base is four time the length of its height. Find the height and base of the triangle. |
| 11) Angle A of a triangle measures (3x) degrees, angle B measures (10x + 4) degrees, and angle C measures (x) degrees. What is the measure of angle A? | 12) In triangle ABC below, the measure of angle B is 70 degrees, and the measure of angle A is half the measure of Angle B. What is the measure of angle C? |
| Project: Hand write a rough draft of the following questions   * **Circles:** What appears to be the relationship of the diameter of any circle, regardless of size, to its perimeter? What formula can be derived from your observations? * **Rectangles:** Is there a relationship between perimeter and area of a rectangle? If so, what is it? If not, what characteristic(s) product(s) the greatest area for a rectangle of any given perimeter? * **Triangle:** Is there a relationship between perimeter and area of a triangle? If so what is it? If not, what characteristic(s) product(s) the greatest area for a triangle of any given perimeter? | |